

ABSTRACT

A system and method for providing digital compensation and correction for an amplifier. The system is configured to provide a digitally compensated representation of a first amplified analog signal indicative of a first parameter based on a digital representation of the first amplified analog signal and a digital representation of a second analog signal indicative of a second parameter. The digitally compensated representation of the first amplified analog signal is determined by applying a pre-stored compensation factor to an offset adjustment calculation for the second parameter to provide a compensated offset adjustment. The compensated offset adjustment is combined with an adjusted gain to provide an offset and gain correction for weighting the first parameter to provide the digitally compensated representation of the first parameter. The adjusted gain can be determined by applying a pre-stored gain factor data to the second parameter.